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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/765,223	01/26/2004	Adlai Smith	38203-6081B	1730
75	90 03/17/2006		EXAM	INER
David A. Hall			YOUNG, CHRISTOPHER G	
Heller Ehrman White & McAuliffe LLP 7th Floor			ART UNIT	PAPER NUMBER
4350 La Jolla Village Drive			1756	
San Diego, CA 92122-1246			DATE MAILED: 03/17/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/765,223	SMITH ET AL.			
Office Action Summary	Examiner	Art Unit			
	Christopher G. Young	1756			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 10 Ja	nuary 2006.				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
 4) ☐ Claim(s) 28-41 is/are pending in the application 4a) Of the above claim(s) 28 and 29 is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 30-41 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	drawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 26 January 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examiner	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da				

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 30-41 in the reply filed on January
 2006 is acknowledged.

Information Disclosure Statement

2. The Examiner makes note of the references cited in the parent application, Application Serial Number 10/020,569. However, if Applicant wants these references to be considered formally, and made of record, in the instant application they should be submitted in an Information Disclosure Statement.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 30-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imai, US Patent Number 6,737,207.

The instant application (elected invention) is drawn to a method of using a reference wafer comprising: loading the reference wafer, that includes overlay targets,

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onto an imaging machine; loading and aligning an overlay reticle onto the imaging machine; exposing the reference wafer with the overlay reticle; developing the reference wafer; measuring the overlay targets; subtracting offset values, associated with the wafer, from the measurements; and calculating errors of the machine. The prior art reference teaches a method for evaluating lithography systems and methods for adjusting the substrate processing machines.

When the ordinary exposure is performed, a wafer, to which a photoresist is applied by a resist coater, is transported onto a wafer stage of a projection exposure apparatus to perform the exposure, followed by development by a developing apparatus. When the characteristic is evaluated, respective shot areas on the wafer applied with the photoresist are exposed with an image of a predetermined evaluating mark in a narrow area in an effective field of a projection optical system of the projection exposure apparatus. The characteristic of the resist coater or the developing apparatus is evaluated by detecting a state of a resist pattern after the development. When the image formation characteristic of the projection exposure apparatus is evaluated, the wafer is exposed with images of a plurality of predetermined evaluating marks in a wide area in the effective field. The respective characteristics of the resist coater, the exposure apparatus, and the developing apparatus for constructing a lithography system can be evaluated respectively independently.

These teachings provide the framework of the instant application as currently claimed. However, the particular step of subtracting offset values associated with the wafer is not discussed. Additionally, some of the particular machines utilized for

imaging in the dependent claims are not particularly disclosed in the prior art reference. Although the prior art is silent with respect to these particular limitations, one of ordinary skill in the art would still have found the invention prima facie obvious in view of the Imai patent since the teachings specifically say that the system can be evaluated independently. Known errors prior to imaging would necessarily be deducted from any error measurements taken to assure that the machines are adjusted properly, and not over or under adjusted. Furthermore, the specific imaging source would not affect the ability of a skilled artisan to apply the teachings of Imai. The method of evaluating the lithography system as taught by the patent would work as well for any imaging source, absent objective evidence to the contrary.

In view of this, the scope of claims 30-41 is prima facie obvious.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher G. Young whose telephone number is 571-272-1394. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher G.(Young

Primary Examiner

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